

**Amendments to the claims:**

Claims 1 - 13 (canceled)

Claims 14-21 (withdrawn)

Claim 22 (currently amended): A network configured to transfer data using time-division multiplexing comprising:

    a first wireless interface including  
        a physical layer interface,  
        an optical transceiver coupled to the physical layer interface and  
        configured to convert an outgoing data stream from an outgoing electrical signal  
        to an outgoing optical signal, and  
        a media abstraction unit coupled to the optical transceiver and configured  
        to reframe the outgoing data stream from the outgoing optical signal to a second  
        outgoing electrical signal suited for wireless transmission, wherein the media  
abstraction unit comprises a link quality management unit configured to adapt one  
or more parameters of the first wireless interface to provide more reliable data  
transmission, the link quality management unit including  
            an error correction code encoding unit configured to add  
            redundancy to an outgoing data stream, and  
            an ECC level control unit coupled to the error correction code  
            encoding unit;  
        a second wireless interface;  
    a first network node including the first wireless interface and a second wireless  
interface;  
    a cross connect switch coupled to the physical layer interface of the first wireless  
interface and the second wireless interface;  
    a second network node having a third wireless interface coupled to the first  
wireless interface of the first network node; and

a third network node coupled to the first network node and the second network node.

Claim 23 (original): The network of claim 22, wherein the ECC level control unit controls the amount of redundancy added by the error correction code encoding unit.

Claim 24 - 44 (withdrawn)